

# IN THE CLAIMS

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)

9. (currently amended) An optical glass consisting of, in mass %,

SiO <sub>2</sub>	40-70%
PbO	14-50%
Na <sub>2</sub> O and /or K <sub>2</sub> O in the total amount of	8- 17%
where	
Na <sub>2</sub> O	6.5-14%
and	
K <sub>2</sub> O	0-15%
B <sub>2</sub> O <sub>3</sub>	0- <del>[[5]]</del> 1.7%
<del>As<sub>2</sub>O<sub>3</sub></del>	<del>0- 1%</del>
Sb <sub>2</sub> O <sub>3</sub>	0- 1%
<del>TiO<sub>2</sub></del>	<del>0- 0.2%</del>
Al <sub>2</sub> O <sub>3</sub>	0- 0.4% <del>and</del>
BaO	0- 5% <u>and</u>

~~fluoride or fluorides substituting for the above oxide or oxides partially entirely, a total amount of fluorine contained in the fluorides being 0-2%~~  
a total amount of 0.1-2% of F in one or more fluoride or fluorides as the fluorine ingredient substituting for the above oxide or oxides partially or entirely and/or 0.001-0.2% of TiO<sub>2</sub> and/or 0.001-1% As<sub>2</sub>O<sub>3</sub>, and an amount of change in refractive index

( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of a laser beam at a wavelength of 351nm with an average output power of 0.43W, pulse repetition rate of 5kHz and a pulse width of 400ns for one hour of 5ppm or below.

10. (currently amended) An optical glass consisting of, in mass %,

SiO <sub>2</sub>	40-70%
PbO	14-50%
Na <sub>2</sub> O and /or K <sub>2</sub> O in the total amount of	8- 17%
where	
Na <sub>2</sub> O	6.5-14%
and	
K <sub>2</sub> O	0-15%
B <sub>2</sub> O <sub>3</sub>	0- <del>[[5]]</del> 1.7%
<del>As<sub>2</sub>O<sub>3</sub></del>	<del>0- 1%</del>
Sb <sub>2</sub> O <sub>3</sub>	0- 1%
<del>TiO<sub>2</sub></del>	<del>0- 0.2%</del>
Al <sub>2</sub> O <sub>3</sub>	0- 0.4% and
BaO	0- 5%

~~fluoride or fluorides substituting for the above oxide or oxides partially entirely, a total amount of fluorine contained in the fluorides being 0-2%~~

Li <sub>2</sub> O	0- 2%
CaO	0- 2%
SrO	0- 2%

the total amount of one or more of the Li<sub>2</sub>O, CaO, SrO, BaO and Al<sub>2</sub>O<sub>3</sub> ingredients being 5% or below and a total amount of 0.1-2% of F in one or more fluoride or fluorides as the fluorine ingredient substituting for the above oxide or oxides partially or entirely and/or 0.001-0.2% of TiO<sub>2</sub> and/or 0.001-1% As<sub>2</sub>O<sub>3</sub>, and an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of a laser beam at a wavelength of 351nm with

an average output power of 0.43W, pulse repetition rate of 5kHz and a pulse width of 400ns for one hour of 5ppm or below.

11 (canceled)

12 (canceled)

13 (canceled):

14 (currently amended) A method of providing an optical glass for lenses of an optical system of an i-line stepper said method comprising providing in said i-line stepper a lens made from an optical glass having a composition glass comprising, in mass %:

SiO <sub>2</sub>	40-70%
PbO	14-50%
Na <sub>2</sub> O and /or K <sub>2</sub> O in the total amount of	8- 17%
where	
Na <sub>2</sub> O	[[10.9]] 5-14 %
and	
K <sub>2</sub> O	0-15%
B <sub>2</sub> O <sub>3</sub>	0- 5%
As <sub>2</sub> O <sub>3</sub>	0- 1%
Sb <sub>2</sub> O <sub>3</sub>	0- 1%
TiO <sub>2</sub>	0-0.2%
Al <sub>2</sub> O <sub>3</sub>	0- 0.4% and
BaO	0- 5%

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of fluorine contained in the fluorides being 0-2%

Li <sub>2</sub> O	0- 2%
CaO	0- 2%

SrO

0- 2%

the total amount of one or more of the  $\text{Li}_2\text{O}$ ,  $\text{CaO}$ ,  $\text{SrO}$ ,  $\text{BaO}$  and  $\text{Al}_2\text{O}_3$  ingredients being 5% or below.